

## Request for General Permit Authorization to Discharge Noncontact cooling Water Notice of Intent (NOI) to be covered by the General Permit

**Noncontact Cooling Water General Permit (NCCWGP)**  
**NPDES General Permits No. MAG250000 and NHG250000**

1. Indicated applicable General Permit for discharge:

MAG250000	<input checked="" type="checkbox"/>
NHG250000	<input type="checkbox"/>

Facility Name: Weston Corporate Center  
 Street/PO Box: 133 Boston Post Road  
 State :Massachusetts  
 Latitude: 42d 22' 20.29" N  
 Type of Business: Commercial/Office Building  
 SIC Codes(s): 73

City: Weston  
 Zip Code: 02493  
 Longitude: 71d 16' 31.09" W

Facility Name: Boston Properties, Reservoir Place  
Street/PO Box: 1601 Trapelo Road City: Waltham  
State: Massachusetts Zip Code: 02451

Name: BP Weston Quarry LLC c/o Boston Properties \_\_\_\_\_  
E-mail: lknowles@bostonproperties.com \_\_\_\_\_  
Street/PO Box: 800 Boylston Street \_\_\_\_\_ City: Waltham \_\_\_\_\_  
State: Massachusetts \_\_\_\_\_ Zip Code: 02199 \_\_\_\_\_  
Contact Person: Leslie Knowles \_\_\_\_\_ Tel: 781-530-1916 \_\_\_\_\_  
Owner is (check one): Federal \_\_\_\_\_ State \_\_\_\_\_ Tribal \_\_\_\_\_ Private \_\_\_\_\_  
Other (describe): REIT \_\_\_\_\_

Legal Name \_\_\_\_\_  
E-mail \_\_\_\_\_  
Street/PO Box \_\_\_\_\_ City \_\_\_\_\_  
State \_\_\_\_\_ Zip Code \_\_\_\_\_  
Contact Person \_\_\_\_\_ Tel \_\_\_\_\_

a) Has a prior NPDES permit (individual or general permit coverage) been granted for the discharge that is listed on the NOI?      yes ☒    no ☐    If Yes, permit number: MAG250979 \_\_\_\_\_

b) Is the facility covered by an individual NPDES permit for other discharges?      yes ☐    no ☒  
If yes, Permit Number: \_\_\_\_\_

c) Is there a pending NPDES application on file with EPA for this discharge? yes ☐ no ☒

If yes, date of submittal: \_\_\_\_\_ and permit number, if available \_\_\_\_\_

7. Attach a topographic map indicating the location of the facility and the outfall(s) to the receiving water.

Map attached? ☒

**B. Discharge Information** (attach additional sheets as needed):

1. Name of receiving water into which discharge will occur: Unnamed Quarry Pond \_\_\_\_\_

Freshwater ☒ Marine Water ☐

State Water Quality Classification Class: None

Type of Receiving Water Body (e.g., stream, river, lake, reservoir, estuary, etc.): Quarry Pond \_\_\_\_\_

2. Attach a line drawing or flow schematic showing water flow through the facility including sources of intake water, operations contributing to flow, treatment units, outfalls, and receiving water(s). **Line drawing or flow diagram attached?** ☒

3. Describe the discharge activities for which the owner/applicant is seeking coverage (e.g., building cooling, process line cooling, etc.): Building Non-Contact Cooling \_\_\_\_\_

4. Number of Outfalls 1 Latitude and Longitude to the nearest second for each Outfall. See EPA's siting tool at [http://www.epa.gov/tri/reporting/siting\\_tool](http://www.epa.gov/tri/reporting/siting_tool). Attach additional pages if necessary.

Outfall #	Latitude: 42d 22' 20.29" N _____	Longitude: 71d 16' 31.09" W _____
Outfall #	Latitude _____	Longitude _____
Outfall #	Latitude _____	Longitude _____

5. For each Outfall provide the following discharge information:

Outfall # 1

a) Maximum Daily Flow 1.0 MGD Average Monthly Flow 0.155 MGD

**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**

b) Maximum Daily Temperature 83 °F Average Monthly Temperature 55.5 °F

c) Maximum Monthly pH 8.6 s.u. Minimum Monthly pH 6.5 s.u.

d) Outfall's discharge is: continuous ☐ intermittent ☒ seasonal ☐

Outfall # \_\_\_\_\_

a) Maximum Daily Flow \_\_\_\_\_ MGD Average Monthly Flow \_\_\_\_\_ MGD

**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**

b) Maximum Daily Temperature \_\_\_\_\_ °F Average Monthly Temperature \_\_\_\_\_ °F

c) Maximum Monthly pH \_\_\_\_\_ s.u. Minimum Monthly pH \_\_\_\_\_ s.u.

d) Outfall's discharge is: continuous ☐ intermittent ☐ seasonal ☐

Outfall # \_\_\_\_\_

a) Maximum Daily Flow \_\_\_\_\_ MGD Average Monthly Flow \_\_\_\_\_ MGD

**NOTE: EPA will use the flow reported here as the facility's permitted effluent flow limit.**

b) Maximum Daily Temperature \_\_\_\_\_ °F Average Monthly Temperature \_\_\_\_\_ °F

c) Maximum Monthly pH \_\_\_\_\_ s.u. Minimum Monthly pH \_\_\_\_\_ s.u.

d) Outfall's discharge is: continuous ☐ intermittent ☐ seasonal ☐

6. Is the source of the NCCW potable water? yes ☐ no ☒

If yes, EPA will calculate a Total Residual Chlorine effluent limit for your facility.

7. Provide the reported or calculated seven day-ten year low flow (7Q10) of the receiving water : Not Applicable \_\_\_ MGD  
Attach any calculation sheets used to support stream flow and/or dilution calculations.

**8. For facilities that discharge to Massachusetts surface waters:**

a) Submit the completed engineering calculation of the surface water temperature rise as shown in Attachment B of the General Permit. Calculation attached? ☐

b) Does the discharge occur in an Area of Critical Environmental Concern (ACEC)? yes ☐ no ☒

If yes, provide the name of ACEC \_\_\_\_\_

**Note: See Part 3.4 and Appendix 1 of the General Permit for more information on ACEC.**

**C. Chemical Additives**

1. Are any non-toxic neutralization and/or dechlorination chemicals used in the discharge(s)? yes ☐ no ☒

2. If yes, attach a listing of each chemical used. Include the chemical name and manufacturer; maximum and average daily quantity used on a monthly basis, as well as the maximum and average daily expected concentrations (mg/l) in the discharge, and the vendor's reported aquatic toxicity (NOAEL and/or LC<sub>50</sub> in percent for typically acceptable aquatic organism).

3. Was the listing submitted with the facility's 2008 NCCWGP NOI? yes ☐ no ☐

**D. NCCW Source Water Information**

1. State the source of the NCCW (e.g., municipal water supply, private well, surface water withdrawal, etc.).

Source: Surface Water Withdrawal \_\_\_\_\_ Name of Source Water: Unnamed Quarry Pond \_\_\_\_\_

2. Is the source water registered/permitted under MA Water Management Act or NHDES User Registration Rule (ENV WQ 2202)? yes ☐ no ☒ If yes, registration number \_\_\_\_\_

3. If the source water is groundwater (non-municipal well water), see Appendix 9 of the General Permit and submit effluent (and receiving water hardness) test results, as required in Part 5.4 of the General Permit.

**Test results attached?** ☐

4. Does the facility use both a primary and backup source of NCCW? yes ☐ no ☒ If yes, **attach information** that identifies and explains the primary and backup sources of NCCW and how often the backup supply was used in the past three years.

**E. Best Technology Available for Cooling Water Intake Structures (CWISs)**

If the facility's discharge is covered by this General Permit and the facility **withdraws non-contact cooling water from a surface water**, you are subject to the BTA requirements at Part 4.2 of the General Permit.

1. Are you subject to the BTA requirements of the General Permit? yes ☒ no ☐

a) If no, explain \_\_\_\_\_ and skip to F.

b) If yes, was the facility-specific BTA description submitted with the facility's 2008 NCCW GP NOI? yes ☒ no ☐

c) If yes, does that description accurately describe the facility current operations and practices? yes ☒ no ☐

2. If the facility is subject to the General Permit's BTA requirements and is requesting coverage under the NCCWGP for the first time, or if you answered "No" to question E.1.c. above, attach the facility-specific BTA description as required in Part 4.2 of the General Permit. For additional information and guidance, see Section IV of the Fact Sheet. Not Applicable

Include in your description:

- a) Measures to meet the General Permit Part 4.3.a general BTA requirements, including documentation that describes the facility's monitoring program for impinged fish and/or invertebrate; or the required alternative monitoring plan frequency and/or protocol.
- b) A characterization of the source water body's aquatic life habitat in the vicinity of each CWIS during the seasons when the CWIS may be in use.
- c) The attributes of the current CWIS.
- d) The design measures of the CWIS.
- e) The operation measures of the CWIS.
- f) The historical occurrence of impinged fish for the past five years.
- g) If applicable, a demonstration that the facility's intake rate is commensurate with a closed-cycle recirculation system.
- h) Other components to reduce impingement and/or entrainment of aquatic life.

3. Provide the following information for each CWIS to support your attached facility-specific BTA description:

- a) The design capacity of the of the CWIS 1.0 MGD
- b) Maximum monthly average intake of the CWIS during the previous five years 0.541 MGD
- c) The month in which this flow reported in 3.b. occurred June 2014
- d) The maximum through-screen design intake velocity 1.11 feet/second (fps)

4. For facilities where the CWIS is located on a freshwater river or stream, provide the following information:

- a) The source water's annual mean flow in MGD as available from USGS or other appropriate source          MGD
- b) The design intake flow as a % of the source water's annual mean flow          %  
Attach calculations if equal to or less than 5% of annual mean flow.
- c) The source water's 7Q10          MGD
- d) The design intake flow as a percent of the source water's 7Q10          %

5. Provide a map showing the location of each cooling water intake structure; NCCW Outfall(s) and CWIS features referred to in the BTA description. **Map attached?** ☒

#### F. Endangered Species Act Eligibility Information

Using the instructions in Appendix 2 of the NCCW GP, which of the following criteria apply to your facility? USFWS

Criteria: A ☒ B ☐ C ☐

1. If you selected USFWS criteria B, has consultation with the U.S. Fish and Wildlife Service been completed?

yes ☐ no ☐

2. If consultation with US Fish & Wildlife Service and/or NOAA Fisheries Service was completed, was a written concurrence finding that the discharge is "not likely to adversely affect" listed species or critical habitat received?

yes ☐ no ☐

3. Attach documentation of ESA eligibility for USFWS as required at Part 3.4 and Appendix 2 of the General Permit.

**Documentation attached?** Yes

4. Please indicate if your facility **directly intakes water for non-contact cooling** from any of the following waterbodies:

- ☐ Merrimack River
- ☐ Connecticut River
- ☐ Piscataqua River
- ☐ Taunton River

EPA will consult with the National Marine Fisheries Service on cooling water intakes covered under this permit in areas (in the above waterbodies) of the endangered Shortnose Sturgeon and Atlantic Sturgeon. Not Applicable

#### G. National Historic Properties Act Eligibility

1. Are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility site or in proximity to the discharge? yes ☐ no ☒

2. Have any State or Tribal Historic Preservation Officers been consulted in this determination? yes ☐ no ☒  
If yes, attach the results of the consultation(s).

3. Which of the three National Historic Preservation Act scenarios listed in Appendix 3, Section C have you met?  
☒ 1    ☐ 2    ☐ 3

#### H. Supplemental Information

Please provide any supplemental information, including antidegradation review information applicable to new or increased discharges. Attach any analytical data used to support the application. Attach any certification(s) required by the General Permit.

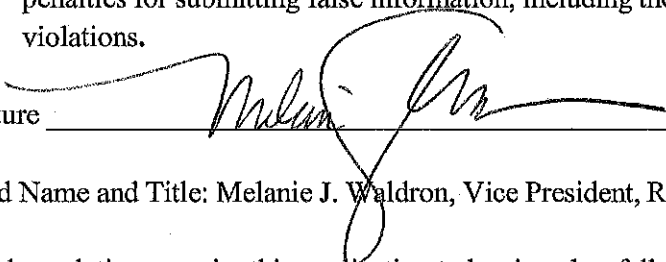
**I. Signature Requirements**

The NOI must be signed by the operator in accordance with the signatory requirements of 40 CFR § 122.22 (see below) including the following certification:

I certify under penalty of law that (1) no biocides or other chemical additives except for those used for pH adjustment and/or dechlorination are used in the noncontact cooling water (NCCW) system; (2) the discharge consists solely of NCCW (to reduce temperature) and authorized pH adjustment and/or dechlorination chemicals; (3) the discharge does not come in contact with any raw materials, intermediate product, water product (other than heat) or finished product; (4) if the discharge of noncontact cooling water subsequently mixes with other wastewater (i.e. stormwater) prior to discharging to the receiving water, any monitoring provided under this permit will be only for noncontact cooling water; (5) where applicable, the facility has complied with the requirements of this permit specific to the Endangered Species Act and National Historic Preservation Act; and (6) this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted.

Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, I certify that the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I certify that I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature



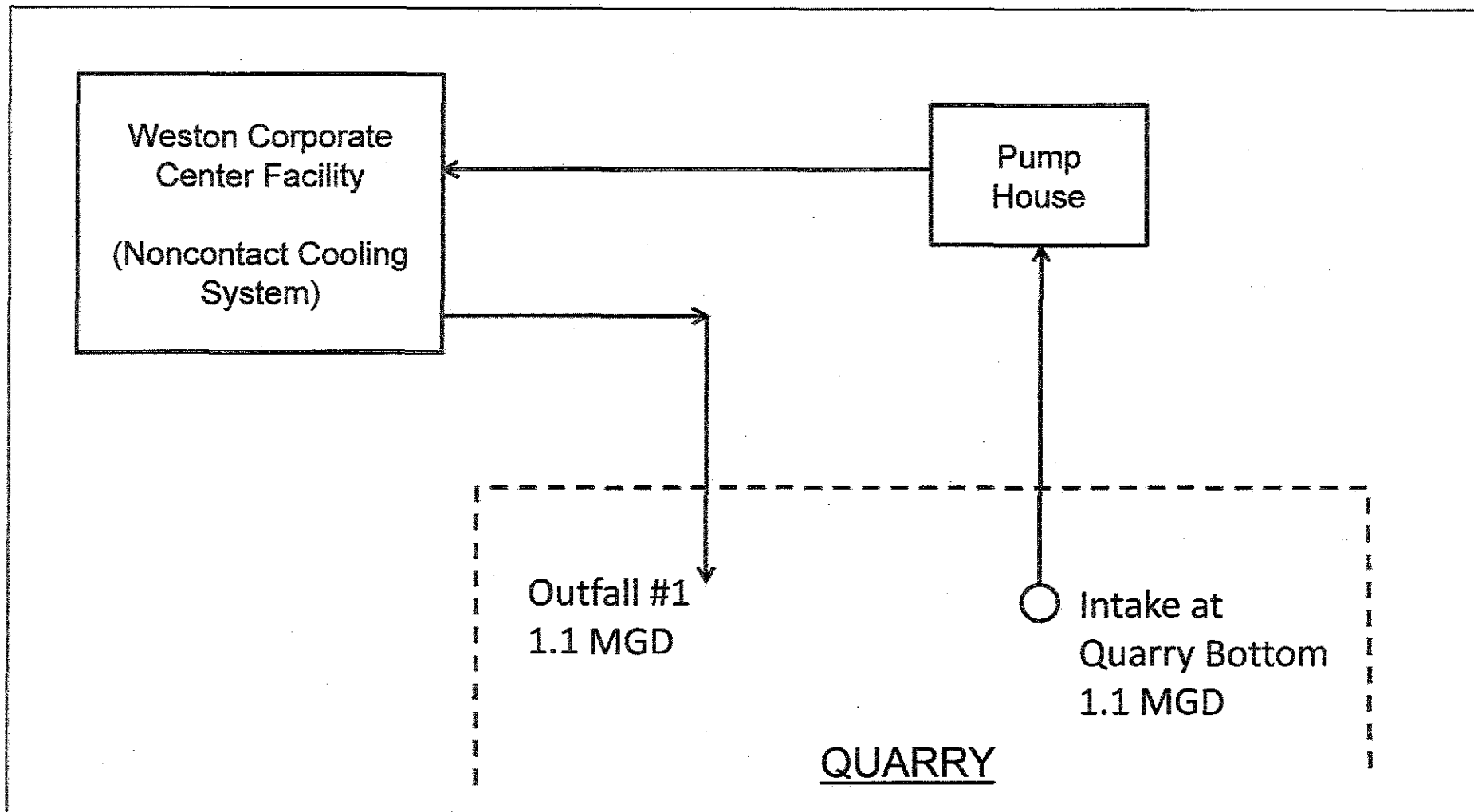
Date: January 30, 2015

Printed Name and Title: Melanie J. Waldron, Vice President, Regional Property Manager

Federal regulations require this application to be signed as follows:

1. For a corporation, by a principal executive officer of at least the level of vice president;
2. For a partnership or sole proprietorship, by a general partner or the proprietor, respectively, or,
3. For a municipality, State, Federal or other public facility, by either a principal executive officer or ranking elected official.





**Noncontact Cooling  
Water General Permit**  
Weston, Massachusetts

**Weston Corporate Center**  
33 Boston Post Road  
Weston, Massachusetts

## Flow Diagram

M491433OT001

WESTON CORPORATE CENTER  
(NCCWGP) - MONTHLY AVERAGE CALCULATION (2013-2014)  
B+T # M4914.33

**Permit Item B.5**                      **Average Monthly  
Monthly Flow (MG) Temperature (°F)**

January-13	0.125	61.28
February-13	0.119	60.84
March-13	0.083	59.51
April-13	2.762	52.92
May-13	10.473	80.87
June-13	2.908	50.05
July-13		
August-15	16.145	50.15
September-15	9.759	51.90
October-15	8.283	50.55
November-15	2.369	56.20
December-13	0.218	61.06
January-14	0.555	59.37
February-14	0.193	60.11
March-14	0.766	57.68
April-14	3.866	53.54
May-14	6.007	52.09
June-14	16.239	49.33
July-14	7.043	49.57
August-14	4.188	49.07
September-14	6.367	47.70
October-14	4.848	49.12
November-14	3.504	55.12
December-14	0.37	58.65

Total =	107.19	1276.68
Monthly Average (/23)	4.660	55.508

Average Monthly Flow = 4.660/ 30 days = 0.155 MGD





**FEDERALLY LISTED ENDANGERED AND THREATENED SPECIES  
IN MASSACHUSETTS**

COUNTY	SPECIES	FEDERAL STATUS	GENERAL LOCATION/HABITAT	TOWNS
Essex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Gloucester, Essex and Manchester
	Piping Plover	Threatened	Coastal Beaches	Gloucester, Essex, Ipswich, Rowley, Revere, Newbury, Newburyport and Salisbury
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Franklin	Northeastern bulrush	Endangered	Wetlands	Montague, Warwick
	Dwarf wedgemussel	Endangered	Mill River	Whately
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampshire	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Hadley
	Puritan tiger beetle	Threatened	Sandy beaches along the Connecticut River	Northampton and Hadley
	Dwarf wedgemussel	Endangered	Rivers and Streams.	Hatfield, Amherst and Northampton
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Hampden	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Southwick
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Middlesex	Small whorled Pogonia	Threatened	Forests with somewhat poorly drained soils and/or a seasonally high water table	Groton
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide
Nantucket	Piping Plover	Threatened	Coastal Beaches	Nantucket
	Roseate Tern	Endangered	Coastal beaches and the Atlantic Ocean	Nantucket
	American burying beetle	Endangered	Upland grassy meadows	Nantucket
	Red Knot <sup>1</sup>	Threatened	Coastal Beaches and Rocky Shores, sand and mud flats	Coastal Towns
	Northern Long-eared Bat	Proposed Endangered	Winter- mines and caves, Summer – wide variety of forested habitats	Statewide

Updated 01/09/2015



U.S. Fish and Wildlife Service

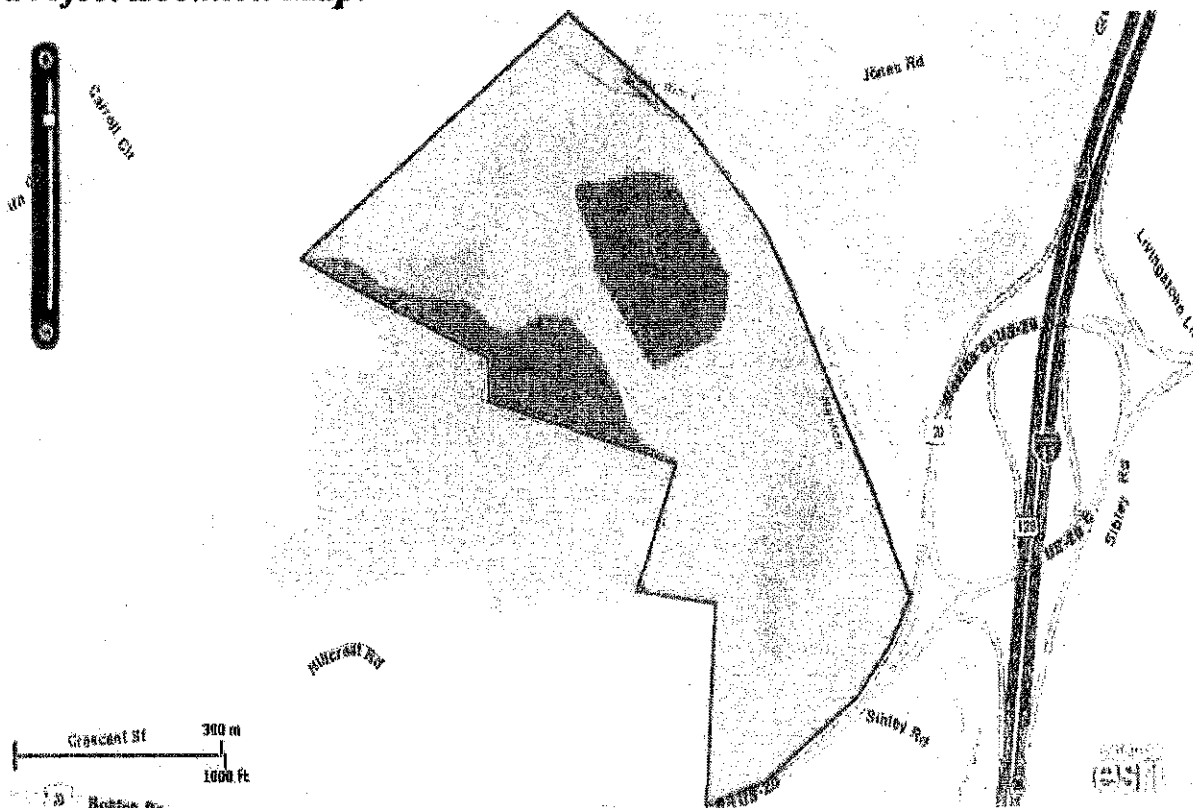
## Trust Resources List

This resource list is to be used for planning purposes only — it is not an official species list.

Endangered Species Act species list information for your project is available online and listed below for the following FWS Field Offices:

New England Ecological Services Field Office  
70 COMMERCIAL STREET, SUITE 300  
CONCORD, NH 3301  
(603) 223-2541  
<http://www.fws.gov/newengland>

### Project Location Map:





U.S. Fish and Wildlife Service

## Trust Resources List

### ***Project Counties:***

Middlesex, MA

### ***Geographic coordinates (Open Geospatial Consortium Well-Known Text, NAD83):***

MULTIPOLYGON (((-71.2714332 42.3696731, -71.2717906 42.369197, -71.2723914 42.368658, -71.2740222 42.3678019, -71.2750951 42.3675482, -71.2749234 42.3696092, -71.2763396 42.369736, -71.27561 42.371036, -71.2789574 42.3716701, -71.2789574 42.372114, -71.2823048 42.3731285, -71.2775412 42.3756648, -71.2765971 42.3751893, -71.2753955 42.3745235, -71.274051 42.3734778, -71.2733644 42.3725901, -71.2721628 42.370878, -71.2714332 42.3696731)))

### ***Project Type:***

\*\* Other \*\*

### ***Endangered Species Act Species List (USFWS Endangered Species Program).***

*There are no listed species found within the vicinity of your project.*

### ***Critical habitats within your project area:***

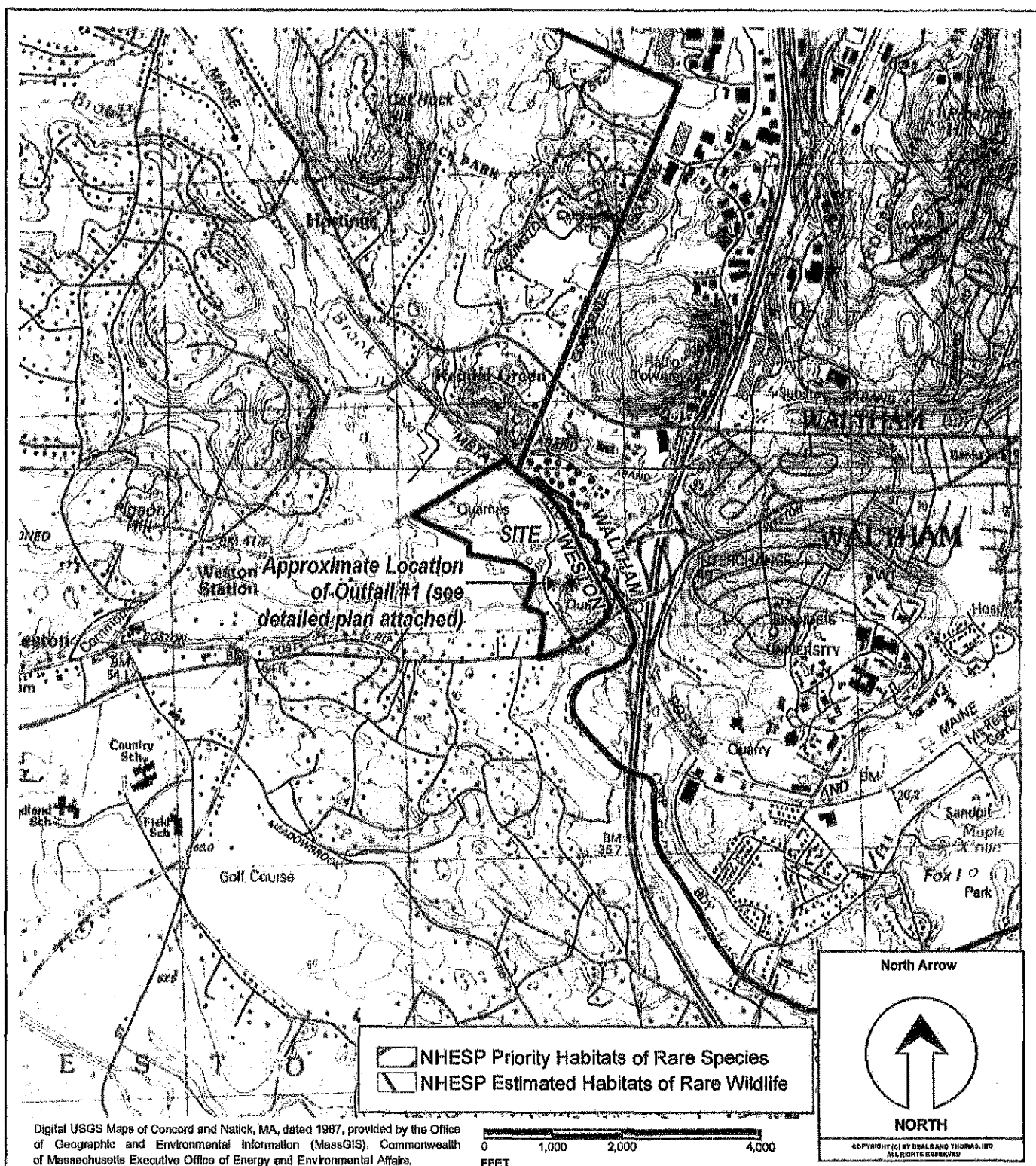
*There are no critical habitats within your project area.*

### ***FWS National Wildlife Refuges (USFWS National Wildlife Refuges Program).***

*There are no refuges found within the vicinity of your project.*

### ***FWS Migratory Birds (USFWS Migratory Bird Program).***

The protection of birds is regulated by the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA). Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. For more information regarding these Acts see: <http://www.fws.gov/migratorybirds/RegulationsandPolicies.html>.



# Noncontact Cooling Water General Permit

**Weston Corporate Center**  
33 Boston Post Road  
Weston, Massachusetts

## Natural Heritage Map

**Scale: 1" = 2,000'**

Date: 01/26/2015

Source File M491433P002A.mxd

BTI Project No. M4914.33